

exercícios propostos

Determine o domínio D da função definida por:

a)
$$f(x) = \frac{x}{x-5}$$
 {x ∈ |R | x ≠ 5}

b)
$$f(x) = \frac{x+2}{2x} \{x \in \mathbb{R} \mid x \in \mathbb{Q}\}$$

c)
$$f(x) = \frac{x}{x^2 - 4} \{x \in \mathbb{R} \mid x \neq -2 \oplus x \neq 2\}$$

d)
$$f(x) = \frac{x}{2x-1}$$
 $\{x \in \mathbb{R} \mid x \neq \frac{1}{2}\}$

e)
$$f(x) = \frac{1}{x^2 - 9x + 20}$$
 {x \in IR \in x \neq 4 \in x \neq 5}

f)
$$f(x) = \frac{1}{x} + \frac{x}{x+3}$$
 {x \(\exists \text{III}\) | $x \neq -3 \(\exists x \exists 0\)}$

g)
$$f(x) = \frac{x+1}{x-1} + \frac{1}{x^2-9} \{x \in \mathbb{R} \mid x \neq -3, x \neq 1 \oplus x \neq 3\}$$
 h) $f(x) = \sqrt{2x-1} \{x \in \mathbb{R} \mid x \geq \frac{1}{2}\}$

h)
$$f(x) = \sqrt{2x-1} \left\{ x \in \mathbb{R} \mid x \ge \frac{1}{2} \right\}$$

i)
$$f(x) = \frac{x-1}{\sqrt{x-2}}$$
 $\{x \in \mathbb{R} \mid x > 2\}$

j)
$$f(x) = \frac{x^2 - 1}{3x} + \frac{1}{\sqrt{x + 5}} \{x \in \mathbb{R}^* \mid x > -5\}$$

2 Ache o campo de existência (domínio) da função $f(x) = \frac{\sqrt{x-1}}{x^2} + \frac{2x}{\sqrt{x+4}}$, $\{x \in \mathbb{R} \mid x = 1\}$

3 Qual e domínio da função f (x) = $\sqrt{4x+1}$? IR